



## How can EMEROX® Polyols help you improve your flexible foam applications?

EMEROX Polyols are engineered for performance. Our polyols provide formulators, fabricators, and end-users with enhanced properties, increased efficiencies, and sustainability. They are excellent materials for use in manufacturing high quality flexible foams and can also be used in CASE applications.

EMEROX Polyols offer significant benefits in a broad range of ester and ether flexible foam applications. They increase hydrophobicity with minimal hydrolytic degradation and provide excellent aliphatic / aromatic hydrocarbon resistance for ester foams and as supplements for ether foams.

Based on well-established, natural-based feedstocks, EMEROX Polyols for flexible foam applications offer structural similarity to petrochemical polyols, but with high renewable content (80%), all while being cost competitive.

PRODUCT NAME	HYDROXYL VALUE	VISCOSITY CP @25°C	FN (CALC.)	BIO-BASED CONTENT	APPLICATION DESCRIPTION
EMEROX® I 4050	50	9,000	2.4	80*	Branched polyol for high elongation foams, or modifier for improved tensile and tear resistance.
EMEROX® I 4066	60	20,000	3.1	80**	Branched polyol for foams with high load requirements. Packaging, molded and filter foam applications.
EMEROX® I 4090	86	5,000	2.5	80**	Branched polyol with lower MW and low viscosity, or modifier for improved tensile and tear resistance.



\*USDA Certified Biobased Product.

\*\* Bio-based content is an estimate, pending final testing.

## Key Benefits

### Home Furnishing & Comfort Grades

- Conventional Grades
  - Soft, luxurious hand-feel
  - Significant source of bio-content
  - Improved tensile, tear, elongation
  - More hydrophobic
  - Substitute polyol at 10-50%
- Viscoelastic Grades
  - Potential for improved tear strength, aids foam handling
- HR Grades
  - Builds IFD, potentially reducing co-polymer polyol demand



### Molded Foams

- Builds IFD, potentially reducing co-polymer polyol demand
- Improved mold flow/filling, especially for MDI systems
- Improved tensile/tear properties to aid in de-molding
- Significant source of bio-content without compromising performance



### Ester/Technical Grade Foams

- Enables truly new and unique technical grade foams
- More hydrophobic backbone, but with similar structure to adipate polyols
- Improved moisture resistance properties
- Improved solvent resistant properties
- Up to 100% of the formulation



To request a sample or to find out more about our EMEROX® Polyols, contact [EFP.Americas@emeryoleo.com](mailto:EFP.Americas@emeryoleo.com) or visit [www.emeryoleo.com/polyols](http://www.emeryoleo.com/polyols)

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